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PREPARATION OF EXPANDED CROSSLINKED POLYOLEFIN MOLDING

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INVENTOR(s): MIYATA HIROYUKI
TAKAHASHI SUSUMU
NIWA TOSHIO
APPLICANT(s): FUJIKURA LTD [000518] (A Japanese Company or Corporation), JP
(Japan)
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ABSTRACT

PURPOSE: To obtain the title molding with inexpensive simple equipment at good efficiency within a short time by irradiating a molding comprising a crystalline polyolefin and a blowing agent with ultraviolet rays under specified temperature conditions.

CONSTITUTION: A crystalline polyolefin (e.g. polyethylene) is mixed with a blowing agent (e.g. azodicarbonamide) and optionally a blowing assistant (e.g. urea), a photosensitizer (e.g. benzophenone), a crosslinking assistant (e.g. triallyl cyanurate), and the obtained mixture is molded into any desired shape. This molding is irradiated with ultraviolet rays under the conditions of a temperature from the crystalline melting temperature of the polyolefin to its decomposition temperature to obtain a expanded crosslinked polyolefin molding. In this way, even a polyolefin molding of a relatively large wall thickness can be simultaneously subjected to crosslinking and foaming within a short time.

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Crosslinked polyolefin foam mouldings prepn. by UV irradiation -
comprising UV irradiating moulding consisting of crystalline polyolefin
e.g. LDPE, foaming agent, photosensitiser and crosslinker

Patent Assignee: FUJIKURA LTD (FUJD)

Number of Countries: 001 Number of Patents: 001

Patent Family:

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Patent Details:

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Abstract (Basic): JP 4185656 A

Prepn. of crosslinked polyolefin foam mouldings comprises U.V.

irradiating a moulding consisting of crystalline polyolefin, foaming agent and, opt. a assistant foaming agent and, opt. photo-sensitiser, and assistant crosslinking agent at temp. more than the m.pt. of the crystal of the crystalline polyolefin and less than the decomposition temp. of the foaming agent.

The mouldings are used for coating of electric wire and electric cable. The mouldings are cylindrical prods, e.g. tube, pipe, etc. The mouldings are flat boards, e.g. film, sheet, etc.

USE/ADVANTAGE - The prepn. can generate high level of crosslinking and foaming at the same time to comparatively thick walled polyolefin mouldings in a short time. In an example, the crystalline polyolefin is e.g. low density polyethylene, high density polyethylene, linear polyethylene, ultra-low density polyethylene, ultra high molecular polyethylene, etc. which have high crosslinking efficien

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Derwent Class: A17; A32; A85; X12

International Patent Class (Main): C08J-009/06

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